

Chapter 1

Introduction

This chapter describes some of the key features of the NETGEAR RangeMax NEXT Wireless Access Point. It also includes the minimum prerequisites for installation (“[System Requirements](#)” on page 1-2.), package contents (“[What’s in the Box](#)” on page 1-2) and a description of the front and back panels of the WN802T (“[Front Panel of the RangeMax NEXT](#)” on page 1-3).

About the RangeMax NEXT Wireless Access Point

The WN802T extends your home or small business network by providing high-speed access of up to 300 Mbps¹, with Gigabit wired support at the back end. RangeMax NEXT WN802T is compliant with NEXT draft 802.11n. This next generation wireless standard utilizes advanced MIMO (Multi-In, Multi-Out) technology, which delivers incredible speed and range, and for the first time provides wireless interoperability at the highest speeds with other products such as Top Dog™.

A RangeMax NEXT wireless network creates and maintains stable connections and enough bandwidth to surf the Internet, check email, make Internet phone calls, share files and stream high-definition videos, simultaneously, at any distance or location in the home or office. RangeMax NEXT is compatible with all legacy b and g wireless products.

Preset internal antenna and draft 11n-True-Test high-performance testing and tuning provides maximum performance and high-quality streaming every time.

Key Features

The RangeMax NEXT is easy-to-use and provides the following features:

- RangeMax™ Multi-In, Multi-Out (MIMO) technology
- Complies with draft 802.11n², and is backwards compatible with 802.11b/g.

1. Maximum wireless signal derived from IEEE standard 802.11 specification. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction and network overhead, lower actual data throughput rate.

2. Ibid.

- Delivers stable, application enhancing connections using Steady-Stream technology.
- Easy, Web-based setup for installation and management.
- NetBIOS login capability.
- Front panel LEDs for easy monitoring of status and activity.
- Flash memory for firmware upgrades.

System Requirements

Before installing the WN802T, make sure your system meets these requirements.

- A 10/100/1000 Mbps Local Area Network device such as a hub, router, or switch.
- The Category 5 UTP straight through Ethernet cable with RJ-45 connector included in the package, or one like it.
- A 100-240 V, 50-60 HZ AC Switching Power Supply.
- A Web browser for configuration such as Microsoft Internet Explorer 6.0 or above, Netscape Navigator 4.78 or above or Mozilla Firefox.
- At least one computer with the TCP/IP protocol installed.
- 802.11Next/b/g or 802.11b/g -compliant devices.

What's in the Box

The product package should contain the following items:

- RangeMax NEXT Wireless Access Point.
- 12V, 1.5A Switching Power Supply
- Vertical stand
- Category 5 (CAT5) Ethernet cable.
- *Resource CD*
- *NETGEAR RangeMax™ NEXT Wireless Access Point WN802T Installation Guide*
- Wall mount kit.
- Warranty and Support Information Card.

If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer. Keep the carton, including the original packing materials, in case you need to return the router for repair.

Front Panel of the RangeMax NEXT

The front panel of the RangeMax NEXT houses three LEDs that display the status of power to the wireless access point, Ethernet connectivity and whether a wireless signal is being sent. To identify the status lights on the front panel of the WN802T and verify connection, refer to [Table 1-1](#) below.

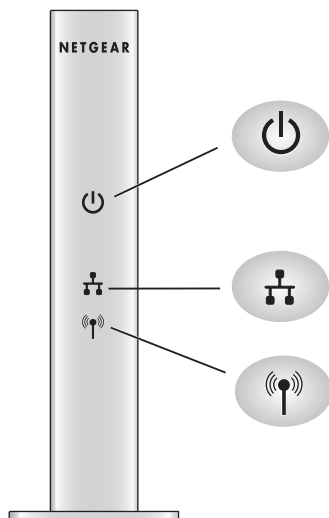





Figure 1-1

You can use the status lights on the front of the wireless access point to verify various conditions described in the following table

Table 1-1. Status Light Descriptions

Label	Activity	Description
Power 	On -- Green Solid Off Solid Amber Blinking Amber	Power is supplied the and the WN802T has passed its diagnostic test. Power is not supplied to the router. System is being initialized. Firmware upgrade is in progress.
Ethernet 	On -- Amber On -- Green Blink – Amber or Green Off	The Ethernet port has detected a connection at either 10 Mbps or 100 Mbps. The Ethernet port has detected a connection at 1000 Mbps. Data is being transmitted. No ethernet link.
WLAN 	On – Slow blink On – Fast blink Off	The Wireless port is initializing and the wireless feature is enabled. Indicates that a WLAN signal is being sent Wireless radio is turned off..

Back Panel of the RangeMax NEXT

The back of the WN802T contains the items listed below:

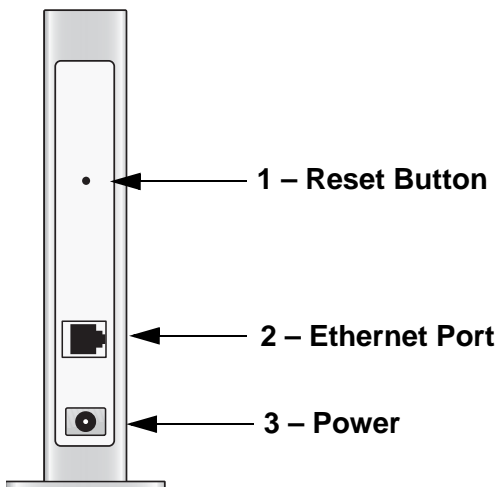


Figure 1-2

Viewed from top to bottom:

1. The reset button which can be used to reset the WN802T or restore the factory default settings. See [Appendix A, “Default Settings and Technical Specifications”](#) for more information on restoring the factory default settings.
2. The Ethernet port for establishing a 10 Mbps, 100 Mbps or 1000 Mbps connection with the network.
3. AC Universal Power Supply outlet.

RangeMax NEXT Default Settings Location

The label on the rear panel of the wireless access point contains the serial number, MAC address and default login information for your WN802T device.

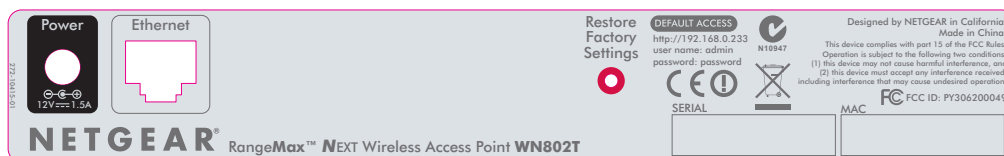


Figure 1-3

Wall Mount Kit

A Wall Mount kit that allows you to conveniently and securely mount your WN802T to a wall is included with your wireless access point. The kit includes a top and bottom bracket. Four screws are required to install the brackets and are not supplied with the kit. For instructions to install the the wall mount kit, see [“Installing the Wall Mount Kit \(Optional\)”](#) on page 2-10.

